

Prem Ganwani

Java Backend Developer — Spring Boot — Microservices

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Professional Summary

Java Backend Developer with nearly 2 years of experience building and operating Spring Boot microservices for multi-tenant SaaS platforms. Improved system reliability by reducing production downtime by 30% (measured over two quarters) and decreased lock contention by 90% through thread-dump analysis and load testing. Strong in concurrency, MySQL performance tuning, and backend reliability engineering.

Technical Skills

Languages: Java (8+), SQL

Backend: Spring Boot, Spring MVC, REST APIs, Hibernate, JPA, JDBC

Security: Spring Security, JWT, OAuth2, Role-Based Access Control

Databases: MySQL, Indexing, Query Optimization, Transaction Management, Flyway

Concurrency & Performance: Thread safety, synchronization optimization, HikariCP tuning, JVM thread-dump analysis, Apache JMeter load testing

Architecture: Microservices, Multi-tenant systems, SOLID principles

Tools: Docker, Git, Maven, Gradle, Linux

Testing: JUnit, Mockito

Professional Experience

Java Backend Developer

Apr 2024 – Present

Graviton (Kugelblitz Pvt. Ltd.), Jaipur

- Developed and optimized core backend microservices serving 20+ tenants and handling up to approximately 100 requests per second at peak load.
- Diagnosed and resolved HikariCP connection lifecycle issues by redesigning DataSource management; connection failures reduced from approximately 15 per day to fewer than 1 per day over a 2-month period based on production logs.
- Identified and refactored high-contention synchronized code paths in a critical service; lock contention reduced by 90%, validated through JVM thread-dump analysis and Apache JMeter load tests under peak traffic.
- Optimized MySQL queries and indexing strategies for high-traffic tables, improving average query response time by 20% based on profiling and execution plan analysis.
- Conducted structured root-cause analysis of production incidents across API and database layers, contributing to a 30% reduction in overall system downtime over two consecutive quarters.
- Introduced Flyway-based schema versioning to standardize database migrations across development and production environments.
- Performed code reviews, owned release validation for backend services, and mentored interns on API design and unit testing practices.

Software Development Intern

Sep 2023 – Jan 2024

Datansh Solutions Pvt. Ltd., Jaipur

- Built a Spring Boot-based Human Resource Management System (HRMS) with MySQL, implementing employee, leave, and attendance modules.

- Designed normalized database structures and ensured data consistency through transaction management.
- Secured REST APIs using Spring Security with token-based authentication and fine-grained access permissions.
- Developed paginated RESTful APIs with validation and centralized exception handling to enhance robustness.
- Collaborated in Agile sprints, participated in code reviews, and wrote unit tests using JUnit and Mockito.

e-Garage — Vehicle Service Platform

Java, Spring Boot, MySQL, JWT, Docker

- Developed backend APIs for a vehicle service platform supporting multiple user roles and booking operations.
- Implemented secure login and authorization mechanisms using Spring Security and JWT.
- Designed MySQL data models to manage booking lifecycles and service coordination.
- Applied stateless service design and optimized database interactions; containerized the application using Docker.

Education

Bachelor of Computer Science and Engineering

Global Institute of Technology, Jaipur

2020 – 2024

CGPA: 8.6/10